1. **If a pipe A can fill a tank 3 times faster than pipe B and takes 32 minutes less than pipe B to fill the tank. If both the pipes are opened simultaneously, then find the time taken to fill the tank?**

   A. 14 minutes

   B. 12 minutes

   C. 15 minutes

   D. 16 minutes

   E. None of the Above

   Answer & Explanation

2. **Two pipes P and Q can fill a tank in 24 minutes and 27 minutes respectively. If both the pipes are opened simultaneously, after how much time should B be closed so that the tank is full in 8 minutes?**

   A. 14 minutes

   B. 12 minutes

   C. 15 minutes

   D. 18 minutes

   E. None of the Above

   Answer & Explanation

3. **A full tank gets emptied in 8 minutes due to the presence of a leak in it. On opening a tap which can fill the tank at the rate of**

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9 L/min, the tank get emptied in 12 min. Find the capacity of a tank?

A. 120 L

B. 240 L

C. 216 L

D. 224 L

E. None of the Above

Answer & Explanation

4. **If a pipe A can fill a tank 3 times faster than pipe B. If both the pipes can fill the tank in 42 minutes, then the slower pipe alone will be able to fill the tank in?**

A. 148 minutes

B. 124 minutes

C. 154 minutes

D. 168 minutes

E. None of the Above

Answer & Explanation

5. **A large cistern can be filled by two pipes P and Q in 15 minutes and 10 minutes respectively. How many minutes will it take to fill the Cistern from an empty state if Q is used for half the time**

and P and Q fill it together for the other half?

A. 6.5 minutes

B. 7.5 minutes

C. 8.5 minutes

D. 9.5 minutes

E. None of the Above

Answer & Explanation

6. **A pipe can fill a cistern in 8 hours. After half the tank is filled, three more similar taps are opened. What is the total time taken to fill the cistern completely?**

A. 3 hours

B. 2 hours

C. 5 hours

D. 4 hours

E. None of the Above

Answer & Explanation

7. **Two pipes P and Q are opened together to fill a tank. Both the pipes fill the tank in time "x" If Q separately took 16 minutes more time than "x" to fill the tank and Q took 36 minutes more**

time than "x" to fill the tank, then find out the value of x?

A. 48 minutes

B. 24 minutes

C. 54 minutes

D. 68 minutes

E. None of the Above

Answer & Explanation

8. **A Cistern has an inlet pipe and outlet pipe. The inlet pipe fills the cistern completely in 1 hour 20 minutes when the outlet pipe is plugged. The outlet pipe empties the tank completely in 6 hours when the inlet pipe is plugged. If there is a leakage also which is capable of draining out the water from the tank at half of the rate of the outlet pipe, then what is the time taken to fill the empty tank when both the pipes are opened?**

A. 3 hours

B. 2 hours

C. 5 hours

D. 4 hours

E. None of the Above

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

9. **A Cistern has an inlet pipe and outlet pipe. The inlet pipe fills the cistern completely in 1 hour 20 minutes when the outlet pipe is plugged. The outlet pipe empties the tank completely in 4 hours when the inlet pipe is plugged. If both pipes are opened simultaneously at a time when the tank was one-third filled, when will the tank fill thereafter?**

A. 3 hours

B. 2 hours

C. 5 hours

D. 4 hours

E. None of the Above

Answer & Explanation

10. **Two pipes P and Q can fill a cistern in 10 hours and 20 hours respectively. If they are opened simultaneously. Sometimes later, tap Q was closed, then it takes total 8 hours to fill up the whole tank. After how many hours Q was closed?**

A. 4 hours

B. 5 hours

C. 2 hours

D. 6 hours

E. None of the Above

Answer & Explanation

1. **Three pipes A, B, and C can fill the tank in 10 hours, 20 hours and 40 hours respectively. In the beginning all of them are**

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opened simultaneously. After 2 hours, tap C is closed and A and B are kept running. After the 4th hour, tap B is also closed. The remaining work is done by tap A alone. What is the percentage of the work done by tap A alone?

A. 30 %

B. 35 %

C. 45 %

D. 50 %

E. None of the Above

Answer & Explanation

2. **A pipe can fill a tank in 12 minutes and another pipe can fill it in 15 minutes, but a third pipe can empty it in 6 minutes. The first two pipes are kept open for 5 min in the beginning and then third pipe is also opened. Time taken to empty the water tank is?**

A. 30 mins

B. 25 mins

C. 45 mins

D. 50 mins

E. None of the Above

Answer & Explanation

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3. **Two pipes A and B can fill a tank in 12 hours and 18 hours respectively. The pipes are opened simultaneously and it is found that due to leakage in the bottom of the tank it took 48 minutes excess time to fill the cistern. When the cistern is full, in what time will the leak empty it?**

A. 72 hours

B. 62 hours

C. 64 hours

D. 84 hours

E. None of the Above

Answer & Explanation

4. **A tank is normally filled in 6 hours but takes two hours longer to fill because of a leak in the bottom of the tank. If the tank is full the leak will empty it in how many hours?**

A. 16 hours

B. 18 hours

C. 17 hours

D. 24 hours

E. None of the Above

Answer & Explanation

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5. **Twelve pipes are connected to a Cistern. Some of them are inlet pipes and the others are outlet pipes. Each of the inlet pipes can fill the tank in 8 hours and each of the outlet pipes can empty the cistern completely in 6 hours. If all the pipes are kept open, the empty tank gets filled in 24 hours. How many inlet pipes are there?**

A. 6

B. 8

C. 7

D. 4

E. None of the Above

Answer & Explanation

6. **A dam has four inlets – A, B, C and D. The dam can be filled in 12 minutes through the first three inlets and it can be filled in 15 minutes through the second, the third and fourth inlet also it can be filled through the first and the fourth inlet in 20 minutes. How much time required to fill up the dam by all the four inlets?**

A. 10 mins

B. 15 mins

C. 20 mins

D. 25 mins

E. None of the Above

Answer & Explanation

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7. **Three pipes P, Q and R connected to a Cistern. The first pipe (i.e) P can fill 1/2 part of the tank in one hour, second pipe, Q can fill 1/3 part of the cistern in one hour. R is connected to empty the cistern. After opening all the three pipes 7/12 part of the cistern. Then how much time required to empty the cistern completely?**

A. 2 hours

B. 3 hours

C. 4 hours

D. 5 hours

E. None of the Above

Answer & Explanation

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8. **A Cistern can be filled by an inlet pipe at the rate of 4 litres per minute. A leak in the bottom of a cistern can empty the full tank in 8 hours. When the cistern is full, the inlet is opened and due to the leak, the cistern is empty in 40 hours. How many litres does the cistern hold?**

A. 4000 litre

B. 2400 litre

C. 1920 litre

D. 2020 litre

E. None of the Above

Answer & Explanation

9. **In a tank there is a pipe which can be used for filling the tank as well as for emptying it. The capacity of the tank is 1200 m^3. The emptying of the tank is 10 m^3 per minute higher than its filling capacity and the pump needs 6 minutes lesser to empty the tank than it needs to fill it. What is the filling capacity of the pipe?**

A. 20 m^3 / min.

B. 40 m^3 / min.

C. 50 m^3 / min.

Note: The Information Provided here is only for reference. It May vary the Original.

D. 60 m^3 / min.

E. None of the Above

Answer & Explanation

10. **Two pipes P and Q can fill a cistern in 12 hours and 4 hours respectively. If they are opened on alternate hours and if pipe A is opened first, in how many hours will the tank be full?**

A. 4 hours

B. 5 hours

C. 2 hours

D. 6 hours

E. None of the Above

Answer & Explanation

1. **Two pipes A and B can fill a tank in 10 hours and 15 hours respectively while a third pipe C can empty the full tank in 20 hours. All the pipes are opened for 5 hours and then C is closed. Find the time in which the tank is full?**

a) 5.5 hrs

b) 6.5 hrs

c) 7.5 hrs

d) 8.5 hrs

e) None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

2. **Three pipe P, Q and R can fill a tank in 12 minutes, 18 minutes and 24 minutes respectively. The pipe R is closed 12 minutes before the tank is filled. In what time the tank is full?**

a) 8.(5/13) hrs

b) 8.(4/13) hrs

c) 7.(4/13) hrs

d) 8.(6/13) hrs

e) None of these

Answer & Explanation

3. **On pipe P is 4 times faster than pipe Q and takes 45 minutes less than pipe Q. In what time the cistern is full if both the pipes are opened together?**

a) 8 minutes

b) 10 minutes

c) 12 minutes

d) 14 minutes

e) None of these

Answer & Explanation

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4. **Two pipes can fill a tank in 15 and 20 hours respectively. The pipes are opened simultaneously and it is found that due to the leakage in the bottom, 17/7 hours extra are taken extra to fill the tank. If the tank is full, in what approximate time would the leak empty it?**

a) 27 hrs

b) 32 hrs

c) 36 hrs

d) 39 hrs

e) None of these

Answer & Explanation

5. **Two pipes A and B can fill a tank in 8 minutes and 12 minutes respectively. If both the pipes are openedsimultaneously, after what time should B be closed so that the tank is full in 6 minutes?**

a) 1 min

b) 2 min

c) 3 min

d) 4 min

e) None of these

Answer & Explanation

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6. **In what time would a cistern be filled by three pipes whose diameters are 1cm, 2 cm and 3 cm running together, when the largest pipe alone can fill the tank in 21 minutes? The amount of water flowing through the pipe is directly proportional to the square of its diameter.**

a)10.5 minutes

b) 11.5 minutes

c) 12.5 minutes

d) 13.5 minutes

e) None of these

Answer & Explanation

7. **Two pipes P and Q can fill a tank in 10 min and 12 min respectively and a waste pipe can carry off 12 litres of water per minute. If all the pipes are opened when the tank is full and it takes one hour to empty the tank. Find the capacity of the tank.**

a) 30

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b) 45
c) 60
d) 75
e) None of these

Answer & Explanation

8. **One pipe fill 1/4 of the tank in 4 minutes and another pipe fills 1/5 of the tank in 4 minutes. Find the time taken by both pipe together to fill half the tank?**
a) 40/9 minutes
b) 50/9 minutes
c) 44/9 minutes
d) 53/9 minutes
e) None of these

Answer & Explanation

9. **Two pipes can separately fill the tank in 15hrs and 30hrs respectively. Both the pipe are opened and when the tank is 1/3 full a leak is developed due to which 1/3 water supplied by the pipe leaks out. What is the total time to fill the tank?**
a) 20/3 hr

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b) 35/3 hr
c) 40/3 hr
d) 50/3 hr
e) None of these

Answer & Explanation

10. **Three pipes A, B and C is attached to a cistern. A can fill it in 20 minutes and B can fill it in 30 minutes. C is a waste pipe. After opening both the pipes A and B, Riya leaves the cistern to fill and returns when the cistern is supposed to be filled. But she found that waste pipe C had been left open, she closes it and now the cistern takes 5 minutes more to fill. In how much time the pipe C can empty the full cistern?**

a) 26.8 minutes
b) 25.8 minutes
c) 27.8 minutes
d) 28.8 minutes
e) None of these

Answer & Explanation

1. **Two pipes A and B can fill a tank in 10 hours and 15 hours respectively while a third pipe C can empty the full tank in 20 hours. All the pipes are opened for 5 hours and then C is closed. Find the time in which the tank is full?**

a) 5.5 hrs
b) 6.5 hrs
c) 7.5 hrs

Note: The Information Provided here is only for reference. It May vary the Original.

d) 8.5 hrs

e) None of these

Answer & Explanation

2. **Three pipe P, Q and R can fill a tank in 12 minutes, 18 minutes and 24 minutes respectively. The pipe R is closed 12 minutes before the tank is filled. In what time the tank is full?**

a) 8.(5/13) hrs

b) 8.(4/13) hrs

c) 7.(4/13) hrs

d) 8.(6/13) hrs

e) None of these

Answer & Explanation

3. **On pipe P is 4 times faster than pipe Q and takes 45 minutes less than pipe Q. In what time the cistern is full if both the pipes are opened together?**

a) 8 minutes

b) 10 minutes

c) 12 minutes

d) 14 minutes

e) None of these

Note: The Information Provided here is only for reference. It May vary the Original.

Answer & Explanation

4. **Two pipes can fill a tank in 15 and 20 hours respectively. The pipes are opened simultaneously and it is found that due to the leakage in the bottom, 17/7 hours extra are taken extra to fill the tank. If the tank is full, in what approximate time would the leak empty it?**

a) 27 hrs

b) 32 hrs

c) 36 hrs

d) 39 hrs

e) None of these

Answer & Explanation

5. **Two pipes A and B can fill a tank in 8 minutes and 12 minutes respectively. If both the pipes are openedsimultaneously, after what time should B be closed so that the tank is full in 6 minutes?**

a) 1 min

b) 2 min

c) 3 min

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d) 4 min

e) None of these

Answer & Explanation

6. **In what time would a cistern be filled by three pipes whose diameters are 1cm, 2 cm and 3 cm running together, when the largest pipe alone can fill the tank in 21 minutes? The amount of water flowing through the pipe is directly proportional to the square of its diameter.**

a)10.5 minutes

b) 11.5 minutes

c) 12.5 minutes

d) 13.5 minutes

e) None of these

Answer & Explanation

7. **Two pipes P and Q can fill a tank in 10 min and 12 min respectively and a waste pipe can carry off 12 litres of water**

per minute. If all the pipes are opened when the tank is full and it takes one hour to empty the tank. Find the capacity of the tank.

a) 30
b) 45
c) 60
d) 75
e) None of these

Answer & Explanation

8. **One pipe fill 1/4 of the tank in 4 minutes and another pipe fills 1/5 of the tank in 4 minutes. Find the time taken by both pipe together to fill half the tank?**

a) 40/9 minutes
b) 50/9 minutes
c) 44/9 minutes
d) 53/9 minutes
e) None of these

Answer & Explanation

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9. **Two pipes can separately fill the tank in 15hrs and 30hrs respectively. Both the pipe are opened and when the tank is 1/3 full a leak is developed due to which 1/3 water supplied by the pipe leaks out. What is the total time to fill the tank?**
   a) 20/3 hr
   b) 35/3 hr
   c) 40/3 hr
   d) 50/3 hr
   e) None of these

   Answer & Explanation

10. **Three pipes A, B and C is attached to a cistern. A can fill it in 20 minutes and B can fill it in 30 minutes. C is a waste pipe. After opening both the pipes A and B, Riya leaves the cistern to fill and returns when the cistern is supposed to be filled. But she found that waste pipe C had been left open, she closes it and now the cistern takes 5 minutes more to fill. In how much time the pipe C can empty the full cistern?**
    a) 26.8 minutes
    b) 25.8 minutes
    c) 27.8 minutes
    d) 28.8 minutes
    e) None of these

    Answer & Explanation

1. **A pipe can empty a tank in 60 minutes alone. Another pipe whose diameter is twice the diameter of first pipe is also**

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opened. Now find the time in which both pipe will empty the tank together.

a) 8 min

b) 10 min

c) 12 min

d) 14 min

e) None of these

Answer & Explanation

2. **Two pipes P and Q can fill a tank in 10 min and 12 min respectively and a waste pipe can carry off 12 litres of water per minute. If all the pipes are opened when the tank is full and it takes one hour to empty the tank. Find the capacity of the tank.**

a) 30

b) 45

c) 60

d) 75

e) None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

3. **Two pipes P and Q can fill a tank in 36 and 24 minutes respectively. If both the pipes are opened simultaneously, after how much time pipe Q should be closed so that tank is full in 30 minutes.**
   a) 2min
   b) 4min
   c) 6min
   d) 8min
   e) None of these

   Answer & Explanation

4. **Two pipes A and B can fill a tank in 20 and 30 minutes respectively. Both the pipes are opened together but after 5 minutes pipe B is closed. What is the total time required to fill the tank**
   a) 16.1/3 min
   b) 16.2/3 min
   c) 17.2/3 min
   d) 18.2/3 min
   e) None of these

   Answer & Explanation

5. **Three pipes P, Q and R can fill a tank in 12, 15 and 20 minutes respectively. If pipe P is opened all the time and pipe Q and R**

are opened for one hour alternatively. The tank will be full in

a) 5hr

b) 6hr

c) 7hr

d) 8hr

e) None of these

Answer & Explanation

6. **A cistern can be filled by a pipe in 6 hours. A leak is developed at the bottom due to which it takes 2 hours more to fill the cistern. Find the time taken by the leak to empty the cistern when the cistern is full.**

a) 20hr

b) 22hr

c) 24hr

d) 26hr

e) None of these

Answer & Explanation

7. **A pipe can fill a tank in 20 minutes and another pipe can fill the tank in 40 minutes. There is a waste pipe which can empty the tank in 15 minutes. First two pipes are opened for 5 minutes and then the third pipe is also opened. In what time the cistern**

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is emptied after the third pipe also opened

a) 60

b) 75

c) 80

d) 90

e) None of these

Answer & Explanation

8. **Two pipes can separately fill the tank in 15hrs and 30hrs respectively. Both the pipe are opened and when the tank is 1/3 full a leak is developed due to which 1/3 water supplied by the pipe leaks out. What is the total time to fill the tank?**

a) 20/3 hr

b) 35/3 hr

c) 40/3 hr

d) 50/3 hr

e) None of these

Answer & Explanation

9. **Pipe P is 4 times as fast as Q in filling a tank. If P takes 20 minutes to fill a tank, then what is the time taken by both the pipe P and Q to fill the tank?**

a) 12

b) 16
c) 18
d) 20
e) None of these

Answer & Explanation

10. **In what time a cistern is filled by three pipes of diameter 2cm, 4cm and 6cm respectively. If the time taken by largest pipe to fill the tank is 40 minutes. Amount of water flowing through the pipe is proportional to the diameter of the pipe**
a) 25.5/7 min
b) 25.3/7 min
c) 23.5/7 min
d) 23.4/7 min
e) None of these

Answer & Explanation

1. **Two pipes P and Q can fill a tank in 20hrs and 25hrs respectively while a third pipe R can empty the tank in 30hrs. If all the pipes are opened together for 10hrs and then pipe R is closed then in what time the tank can be filled.**
a) 400/23hrs
b) 400/27hrs
c) 200/23hrs
d) 200/27hrs
e) None of these

Answer & Explanation

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2. **There are three taps A, B and C which can fill a tank in 12hrs, 15hrs and 30 hrs respectively. If the tap A is opened first, after one hour tap B was opened and after 2 hours from the start of A, tap C is also opened. Find the time in which the tank is full.**
   a) 6(2/11)hr
   b) 6(3/11)hr
   c) 5(3/11)hr
   d) 5(2/11)hr
   e) None of these

   Answer & Explanation

3. **Three pipes P, Q and R can fill the tank in 5, 10 and 15 minutes respectively. If all the pipes are opened together and pipe Q is turned off 5 minutes before the tank is fill. Then find the time in which the tank will full.**
   a) 45/11hrs
   b) 53/11hrs
   c) 51/13hrs
   d) 47/11hrs
   e) None of these

   Answer & Explanation

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4. **A pipe can fill a tank in 20 minutes but due to a leak develop at the bottom of the tank, 1/5 of the water filled by the pipe leaks out. Find the time in which the tank is filled.**
   a) 20 min
   b) 25 min
   c) 30 min
   d) can't be determined
   e) None of these

   Answer & Explanation

5. **A bathing tub can be filled by a cold pipe in 15 minutes and by a hot pipe in 10 minutes. Ramesh opened both the tap and leaves the bathroom and returns at the time when the tub should be full. He observed that a waste pipe is opened at the bottom, he now closes it. Now the tub will take more 5 minutes to fill the tank, find the time in which the leak can empty the tank.**
   a) 36/5 min
   b) 33/5 min
   c) 37/5 min
   d) can't be determined
   e) None of these

   Answer & Explanation

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6. **There are 10 taps connected to a tank. Some of them are waste pipe and some of them are water pipe. Water pipe can fill the tank in 15 hours and waste pipe can empty the tank in 30 hours. Find the number of waste pipes if the tank is filled in 6 hours.**

a) 3
b) 4
c) 5
d) 7
e) None of these

Answer & Explanation

7. **Pipe A is 4 times as fast as B in filling a tank. If A takes 20 minutes to fill a tank, then what is the time taken by both the pipe A and B to fill the tank?**

a) 12
b) 16
c) 18
d) 20
e) None of these

Answer & Explanation

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8. **Pipe A is 4 times faster than pipe B and takes 45 minutes less to fill a tank. When both the pipes are opened together than the time in which the tank will be full.**

a) 10 min

b) 12 min

c) 15 min

d) 18 min

e) None of these

Answer & Explanation

9. **Two pipes P and Q can fill a tank in 20 minutes and 30 minutes respectively. There is a waste pipe which withdraws water at the rate of 8 litres per minute. Now the tank is full and If all the pipes are opened simultaneously the tank is emptied in 60 minutes. Find the capacity of the tank.**

a) 60ltr

b) 70ltr

c) 80ltr

d) 90ltr

e) None of these

Answer & Explanation

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10. **There are 4 filling pipes and 3 emptying pipes capable of filling and emptying in 12 minutes and 15 minutes respectively. If all the pipes are opened together and as a result they fill 10 litres of water per minute. Find the capacity of the tank.**

a) 65ltr

b) 70ltr

c) 75ltr

d) 80ltr

e) None of these

Answer & Explanation

1. **Two taps can separately fill the tank in 10m and 15min respectively. They fill the tank in 12 minutes when a third pipe which empties the tank is also opened. What is the time taken by the third pipe to empty the whole tank?**

A) 14 minutes

B) 15 minutes

C) 12 minutes

D) 20 minutes

E) 16 minutes

Answer & Explanation

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2. **Two pipes A and B can fill a tank in 12 hours and 15 hours respectively. If they are opened on alternate hours with pipe A opened first, then in how many hours the tank will be full?**

A) 13 hrs

B) 14 1/2 hrs

C) 12 hrs

D) 12 1/2 hrs

E) 10 2/3 hrs

Answer & Explanation

3. **Pipes P and Q can fill the tank in 24 minutes and 32 minutes respectively. Both piped are opened together. To have the tank full in 18 minutes, after how many minutes the pipe P must be closed?**

A) 22 minutes

B) 21 minutes

C) 15 minutes

D) 12.5 minutes

E) 10.5 minutes

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

4. **Three pipes, A, B and C are opened to fill a tank such that A and B cam fill the tank alone in 36 min. and 45 min. respectively and C can empty it in 30 min. After 6 minutes the emptying pipe is closed. In how many minutes the tank will be full in this way?**

A) 20
B) 25
C) 18
D) 24
E) 30

Answer & Explanation

5. **A and B are pipes such that A can empty the tank in 60 minutes and B can fill in 30 minutes. The tank is full of water and pipe A is opened. If after 18 minutes, pipe B is also opened, then in how much total time the tank will be full again?**

A) 32 minutes
B) 29 minutes
C) 36 minutes
D) 23 minutes
E) 18 minutes

Answer & Explanation

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6. **Two pipes A and B can alone fill a tank in 20 minutes and 30 minutes respectively. But due to a leak at the bottom of tank, it took 3 more minutes to fill the tank. In how many hours, the leak can alone empty the full tank?**

A) 60
B) 30
C) 48
D) 56
E) 72

Answer & Explanation

7. **Pipes A and B can fill a cistern in 15 hours together. But if these pipes operate separately A takes 40 hours less than B to fill the tank. In how many hours the pipe A will fill the cistern working alone?**

A) 60
B) 20
C) 40
D) 15
E) 25

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Answer & Explanation

8. **Three pipes A, B and C can fill the cistern in 10, 12, and 15 hours respectively. In how much time the cistern will be full if A is operated for the whole time and B and C are operated alternately which B being first?**

A) 10 hours 32 minutes

B) 6 hours

C) 5 1/2 hours

D) 5 7/10 hours

E) 9 2/11 hours

Answer & Explanation

D) 5 7/10 hours

Explanation:

In first hour, part of cistern filled is (1/10 + 1/12) = 11/60

In second hour, part of cistern filled is (1/10 + 1/15) = 1/6

So in 2 hours, part of cistern filled is 11/60 + 10/60 = 21/60 = 7/20

now in 2*2 (4) hours, part of cistern filled is (7/20)*2 = 14/20 = 7/10

now in the 5th hour, A+B's turn which fill 11/60 in that hour, but the cistern remaining to be filled is (1 – 7/10) = 3/10, since 3/10 is more than 11/60, so after 5th hour remaining part to be filled is 3/10 – 11/60 = 7/60

now in 6th hour, (A+C)'s turn, it will fill remaining 7/60 in (7/60)*(6/1) = 7/10

so total 5 7/10 hours

9. **A cistern is 1/4th full. Two pipes which fill the cistern in 15 minutes and 20 minutes respectively are opened**

simultaneously. After 5 minutes, a third pipe which empties the full cistern in 30 minutes is also opened. In how many minutes the cistern will be full?

A) 6 1/2

B) 2

C) 5

D) 7

E) 8

Answer & Explanation

10. **Pipes A, B and C which fill the tank together in 6 hours are opened for 2 hours after which pipe C was closed. Find the number of hours taken by pipe C to fill the tank if the remaining tank is filled in 7 hours.**

A) 16

B) 14

C) 20

D) 22

E) Cannot be determined

Answer & Explanation

1. **Three pipes A, B and C can fill a cistern in 6 hours. After working at it together for 2 hours, C is closed and A and B can fill the remaining part in 6 hours. The number of hours taken by**

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C alone to fill the cistern is

A.12hrs

B.10hrs

C.18hrs

D.8hrs

E.None of these

Answer & Explanation

2. **Pipes A and B can fill a tank in 5 and 3 hrs respectively. Pipe C can empty empty it in 15 h. The tank is half full. All the three pipes are in operation simultaneously. After how much time the tank will be full ?**

A.1(7/15)hrs

B.2(1/11)hrs

C.1(1/14)hrs

D.2(3/11)hrs

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

3. **Two pipes A and B can fill a tank in 10 minutes and 20 minutes respectively. Both the pipes are opened together but after 4 minutes, Pipe A is turned off. What is the total time required to fill the tank ?**

A.12m

B.10m

C.8m

D.16m

E.None of these

Answer & Explanation

4. **Two pipes A and B can fill a tank in 6 hours and 5 hours respectively. If they are turned on alternatively for 1 hour each, find the time in which the tank is full. (Assume pipe A is opened first)**

A.4hrs 30min

B.5hrs

C.6hrs 25min

D.5hrs 30min

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

5. **Pipes A, B and C can fill a tank in 3, 4 and 6 hours respectively. If all the pipes are opened together and after 30 minutes pipes B and C are turned off, find the total time in which the tank is full.**

A.2(3/8)hrs

B.1(1/7)hrs

C.2(2/7)hrs

D.3(1/3)hrs

E.None of these

Answer & Explanation

6. **Two pipes M and N can fill a tank in 30 and 45 minutes respectively. If both the pipes were open for few minutes after N was closed and the tank was full in 25 minutes, find the time for pipe N was open.**

A.8.16m

B.7.5min

C.5min

D.10.2m

E.None of these

Note: The Information Provided here is only for reference. It May vary the Original.

Answer & Explanation

7. **A cistern is filled by 3 pipes A, B and C with uniform flow. The second pipe B takes3/2 times the time taken by A to fill the tank, while C takes twice the time taken by B to fill the tank. If all the three pipes can fill the tank in 7 hours, find the time required by pipe A alone to fill the tank.**

A.10hrs

B.12hrs

C.14hrs

D.15hrs

E.None of these

Answer & Explanation

8. **Two pipes P and Q can fill a tank in 8 hours. If only pipe P is open then it would take 4 hours longer to fill the tank. Find how much longer would it take if only pipe Q is open.**

A.16hrs

Note: The Information Provided here is only for reference. It May vary the Original.

B.12hrs

C.10hrs

D.8hrs

E.None of these

Answer & Explanation

9. **Two pipes P and Q can fill a tank in 20m and 30m respectively. If both the pipes are opened simultaneously, after how much time should Q be closed so that the tank is full in 16minutes ?**

A.12min

B.6min

C.10min

D.7min

E.None of these

Answer & Explanation

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10. **A tap can fill a tank in 12 minutes and another tap can empty the tank in 6 minutes.If the tank is already full and then both the taps are opened the tank will be**

A.Filled in 6 minutes

B.Emptied in 6 minutes

C.Filled in 6 minutes

D.Emptied in 12 minutes

E.None of these

Answer & Explanation

1. **Three pipes A, B and C can fill a cistern in 6 hours. After working at it together for 2 hours, C is closed and A and B can fill the remaining part in 6 hours. The number of hours taken by C alone to fill the cistern is**

A.12hrs

B.10hrs

C.18hrs

D.8hrs

E.None of these

Answer & Explanation

2. **Pipes A and B can fill a tank in 5 and 3 hrs respectively. Pipe C can empty empty it in 15 h. The tank is half full. All the three pipes are in operation simultaneously. After how much time the**

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tank will be full ?

A.1(7/15)hrs

B.2(1/11)hrs

C.1(1/14)hrs

D.2(3/11)hrs

E.None of these

Answer & Explanation

3. **Two pipes A and B can fill a tank in 10 minutes and 20 minutes respectively. Both the pipes are opened together but after 4 minutes, Pipe A is turned off. What is the total time required to fill the tank ?**

A.12m

B.10m

C.8m

D.16m

E.None of these

Answer & Explanation

4. **Two pipes A and B can fill a tank in 6 hours and 5 hours respectively. If they are turned on alternatively for 1 hour each,**

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find the time in which the tank is full. (Assume pipe A is opened first)

A.4hrs 30min

B.5hrs

C.6hrs 25min

D.5hrs 30min

E.None of these

Answer & Explanation

5. **Pipes A, B and C can fill a tank in 3, 4 and 6 hours respectively. If all the pipes are opened together and after 30 minutes pipes B and C are turned off, find the total time in which the tank is full.**

A.2(3/8)hrs

B.1(1/7)hrs

C.2(2/7)hrs

D.3(1/3)hrs

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

6. **Two pipes M and N can fill a tank in 30 and 45 minutes respectively. If both the pipes were open for few minutes after N was closed and the tank was full in 25 minutes, find the time for pipe N was open.**

A.8.16m

B.7.5min

C.5min

D.10.2m

E.None of these

Answer & Explanation

7. **A cistern is filled by 3 pipes A, B and C with uniform flow. The second pipe B takes3/2 times the time taken by A to fill the tank, while C takes twice the time taken by B to fill the tank. If all the three pipes can fill the tank in 7 hours, find the time required by pipe A alone to fill the tank.**

A.10hrs

B.12hrs

C.14hrs

D.15hrs

E.None of these

Note: The Information Provided here is only for reference. It May vary the Original.

Answer & Explanation

8. **Two pipes P and Q can fill a tank in 8 hours. If only pipe P is open then it would take 4 hours longer to fill the tank. Find how much longer would it take if only pipe Q is open.**

A.16hrs

B.12hrs

C.10hrs

D.8hrs

E.None of these

Answer & Explanation

9. **Two pipes P and Q can fill a tank in 20m and 30m respectively. If both the pipes are opened simultaneously, after how much time should Q be closed so that the tank is full in 16minutes ?**

A.12min

B.6min

C.10min

Note: The Information Provided here is only for reference. It May vary the Original.

D.7min

E.None of these

Answer & Explanation

10. **A tap can fill a tank in 12 minutes and another tap can empty the tank in 6 minutes.If the tank is already full and then both the taps are opened the tank will be**

A.Filled in 6 minutes

B.Emptied in 6 minutes

C.Filled in 6 minutes

D.Emptied in 12 minutes

E.None of these

Answer & Explanation

1. **Two taps can separately fill the tank in 18m and 12min respectively and when the waste pipe is open, they can together fill the tank in 9minutes.The waste pipe can empty the tank in**

A.20min

B.25min

C.36min

D.30min

E.None of these

Answer & Explanation

2. **Two pipes can fill the tank in 4hrs 5hrs respectively while the third pipe can empty the tank in 20hrs, if all the pipes are opened together, then the tank will be filled in**

A.2.30hrs

B.2.50hrs

C.3.20hrs

D.3.30hrs

E.None of these

Answer & Explanation

3. **10 buckets of water fill a taken when the capacity of each bucked is 14 liter. How many buckets will be needed to fill the same tank, if the capacity of each bucket is 7litres ?**

A.10

B.12

C.18

D.20

E.None of these

Answer & Explanation

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4. **A leak in the bottom of a tank can empty the full tank in 7 hours. An inlet pipe fills water at the rate of 2 litres a minute. When the tank is full the inlet is opened and due to the leak the tank is empty in 8 hours. The capacity of the tank in litres is**

A.3450litres

B.5460litres

C.7620litres

D.6720 litres

E.None of these

Answer & Explanation

5. **Two pipes P and Q can fill a tank in 6 hours and 8 hours respectively. If they are opened on alternate hours and if pipe P is opened first, in how many hours, the tank shall be full ?**

A.10 hrs

B.9.30hrs

C.6.45hrs

D.10.30hrs

E.None of these

Answer & Explanation

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6. **Two pipes can fill a tank in 10 hours and 12 hours respectively while a third pipe empties the full tank in 20 hours.If all the three pipes operate simultaneously, in how much time will the tank be filled?**

A.7hrs

B.8hrs

C.7hrs 30 min

D.9hrs 30min

E.None of these

Answer & Explanation

7. **One pipe can fill a tank 4 times as fast as another pipe. If together the two pipes can fill the tank in 15 minutes, then the slower pipe alone will be able to fill the tank in:**

A.75minutes

B.60minutes

C.55minutes

D.45minutes

E.None of these

Answer & Explanation

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8. **Bucket A has thrice the capacity as bucket B. It takes 20 turns for bucket P to fill the empty drum. How many turns it will take for both the buckets A and B having each turn together to fill the empty drum**

A.12

B.10

C.15

D.16

E.None of these

Answer & Explanation

9. **Two pipes A and B would fill a cistern in 20m and 30min respectively, both pipes are kept open for 10min and the first pipe be turned off after that the cistern may be filled in**

A.6min

B.5min

C.8min

D.10min

E.None of these

Note: The Information Provided here is only for reference. It May vary the Original.

Answer & Explanation

10. **Tap A can fill the empty tank in 12hrs but due to leak in the bottom it is filled in 15hrs.If the tank is full ,then tap is closed.In how many hours the leak can empty the tank ?**

A.60hrs

B.50hrs

C.45hrs

D.30hrs

E.None of these

Answer & Explanation

1. **Two pipes A and B can fill a tank in 4 hours and 5 hours respectively. If they are opened on alternate hours and if pipe B is opened first, in how many hours, the tank fill in**

A.7hrs

B.6hrs

C.4.30hrs

D.5hrs

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

2. **A tap can fill a tank completely in 6 hours. After half the tank is filled , one more similar tap is opened. What is the total time taken to fill the tank completely ?**

A.4hrs 20min

B.3hrs 30min

C.3hrs 10min

D.4hrs 30min

E.None of these

Answer & Explanation

3. **A cistern can be filled by a tap in 4 hours while it can be emptied by another tap in 7 hours. If both the taps are opened simultaneously, then after how much time will the cistern get filled?**

A.9.00hrs

B.9.20hrs

C.9.30hrs

D.9.33hrs

E.None of these

Answer & Explanation

Note: The Information Provided here is only for reference. It May vary the Original.

4. **A pipe can fill a tank in 5hours, but due to a leakage it took 7hours to fill the tank. If the tank is full, in what time will the tank become empty due to leakage ?**

A.15.30hrs

B.17.50hrs

C.16hrs

D.12.30hrs

E.None of these

Answer & Explanation

5. **Two pipes A and B can separately fill a tank in 10 and 15 minutes respectively. A third pipe C can drain off 30 liters of water per minute. If all the pipes are opened, the tank can be filled in 10 minutes. What is the capacity of the tank?**

A.500litres

B.370liters

C.450liters

D.320liters

E.None of these

Answer & Explanation

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